

**Amendments to the Claims**

Please cancel claims 3, 5 through 8, and 14 through 30 and amend the claims as follows:

1. (Amended) A recombinant DNA construct comprising a polynucleotide ~~selected from the group consisting of a polynucleotide~~ comprising a nucleic acid sequence ~~selected from the group consisting of SEQ ID NO: 1-3549 3366 or the complement thereof~~.
2. (Amended) A recombinant DNA construct comprising a polynucleotide ~~selected from the group consisting of a polynucleotide~~ encoding a polypeptide having an amino acid sequence ~~selected from the group consisting of comprising~~ SEQ ID NO: 3550-7098 6915.
3. (Cancelled)
4. (Amended) A substantially purified nucleic acid molecule comprising a nucleic acid sequence wherein said nucleic acid sequence:
  - (a) hybridizes under stringent conditions to a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof or and a fragment of either, or
  - (b) exhibits a 90% or greater identity to a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof or and a fragment of either.
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)

9. (Amended) A substantially purified nucleic acid molecule comprising a nucleic acid sequence that shares between 100% and 90% sequence identity with a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof ~~or~~ and a fragment of either.

10. (Amended) The substantially purified nucleic acid molecule of claim 9, wherein said nucleic acid sequence shares between 100% and 95% sequence identity with a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof ~~or~~ and a fragment of either.

11. (Amended) The substantially purified nucleic acid molecule of claim 10, wherein said nucleic acid sequence shares between 100% and 98% sequence identity with a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof ~~or~~ and a fragment of either.

12. (Amended) The substantially purified nucleic acid molecule of claim 11, wherein said nucleic acid sequence shares between 100% and 99% sequence identity with a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof ~~or~~ and a fragment of either.

13. (Amended) The substantially purified nucleic acid molecule of claim 12, wherein said nucleic acid sequence shares 100% sequence identity with a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 3549 3366, a complement thereof ~~or~~ and a fragment of either.

Claims 14 - 30. (Cancelled).